



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466
http://www.epa.gov/region08

Ref: 8EPR-SR

May 9, 2002

Ms. Jennifer West Family Star Montessori School 1331 East 33rd Avenue Denver, CO 80209

Dear Ms. West:

Enclosed please find the letters that contain results of soil sampling done by the Environmental Protection Agency at the Family Star Montessori School. If you have any questions, please feel free to call me at (303) 312-6579. I look forward to working with you on sampling the garden area at the school to address the concerns of a parent of one of your students.

Sincerely,

Bonnie Lavelle

Remedial Project Manager

enclosure



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REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2486
http://www.epa.gov/region08

Ref: 8EPR-SR

March 27, 2000

Ms. Nancy Willis Family Star Montessori School 2246 Federal Boulevard Denver, CO 80211

RE: Soil Sampling at Family Star Montessori School

Dear Ms. Willis:

I am pleased to tell you that EPA has completed the testing of the soil samples collected from the Family Star Montessori School at 1331 East 33rd Avenue, Denver. The soil was tested for arsenic and lead as part of the Vasquez Boulevard/Interstate 70 Superfund Site investigation. We analyzed 90 samples from the property, 30 each from the school yard, the playground, and the vacant lot. The results are reported in parts of arsenic and lead per million parts of soil. Your results are shown in the tables attached to this letter. Maps showing the location of each sample are also attached.

EPA looks at these results to determine whether a cleanup of the soil in the school property is needed. If the results indicate levels greater than 400 arsenic and/or 2,000 lead, the soil will need to be cleaned up.

Your results show that we did not detect arsenic in most samples. Our limit of detection is 11 parts per million. Only 13 samples contained detectable amounts of arsenic in the school yard and playground and these values are only slightly above the detection limit (maximum value was 19). The level of lead is not of concern. Clean up action is not required at the school yard or at the playground. This means that the property is not considered to be part of the Vasquez Boulevard. I-70 Superfund Site.

We detected arsenic in one sample on the vacant lot property at a level above 400, indicating that some clean up action is required. EPA is planning to begin clean up activities in May, 2000. We will be contacting you soon with details. If you are concerned, there are things you can do to reduce contact with soil. The enclosed fact sheet describes them. Keeping children away from the soil in the small area where the elevated level of arsenic was detected would be prudent until the clean up work is completed.

Please share these results with the parents of children who attend your school. If you have any questions, please feel free to call me at (303) 312-6579. Thank you for your cooperation in EPA's study.

Sincerely,

Bonnie Lavelle

Remedial Project Manager

attachments

Metals Concentration in Grab Samples Collected at Family Star Montessori Vacant Lot

Parameter	meter Detection A Frequency				Max (ppm)	Min (ppm)	
Arsenic	14/30	67	1517	11			
Lead	30/30	310	1811	· 88			

Grab Sample Results

Grab Sample	Hesurts .	
Sample ID	Arsenic (ppm)	Lead (ppm)
3-06091-B *	77	402
3-06092-B	14	307
3-06093-B	11	111
3-06094-B	14	400
3-06095-B] 11	298
3-06096-B	23	255
3-06097-B	11	128
3-06098-B	15	219
3-06099-B] 11	282
3-06100-B	11	218
3-06101-B	11	182
3-06102-B	19	415
3-06103-B	11	271
3-06104-B	11	282
3-06105-B	11	258
3-06106-B	22	125
3-06107-B	11	146
3-06108-B	11	174
3-06109-B	11	227
3-06110-B	11	88
3-06111-B	19	253
3-06112-B	13	. 288
3-06113-B	48	1811
3-06114-B	11	309
3-06115-B	1517	404
3-06116-B	11	122
3-06117-B	12	235
3-06118-B	17 .	517
3-06119-B	20	437
3-06120-B	11	129

^{*}Sample concentration confirmed by reanalysis; see attached page for reanalysis results

REANALYSIS OF 2 SOILSAMPLES FROM SCHOOLS & PARKS PROGRAM

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2/7/00	1455 3	-06427-B	3-06115-B	976	317
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2/7/00	1455 3- 1455 3-	06426-B	3-06091-B	108	510

Metals Concentration in Grab Samples Collected at Family Star Montessori Playground

Parameter	Detection Frequency	Average (ppm)	Max (ppm)	Min (ppm)
Arsenic	6/30	11	18	11
Lead	30/30	223	567	61

Grab Sample Results

Grab Sample R	esults	
Sample ID	Arsenic (ppm)	Lead (ppm)
3-06061-B	11	410
3-06062-В	11	525
3-06063-B	11	239
3-06064-B	12	234
3-06065-B	11	135
3-06066-В	11	567
3-06067-B	∫ 11	108
3-06068-B	11	256
3-06069-B	11	451
3-06070-B	11	427
3-06071-B	11	136
3-06072-B	18	155
3-06073-B	11	129
3-06074-B	11	324
3-06075-B	11	119
3-06076-B	11	529
3-06077-В	11	170
3-06078-B	11	207
3-06079-B	13	165
3-06080-B	11	102
3-06081-B	11	141
3-06082-B	13	165
3-06083-В	11	98
3-06084-В	11	61
3-06085-B	11	153
3-06086-B	11	118
3-06087-B	14	147
3-06088-В	11	99
3-06089-B	11	137
3-06090-B	11	173

Metals Concentration in Grab Samples Collected at Family Star Montessori Schoolyard

Parameter	Detection Frequency	Average (ppm)	Max (ppm)	Min (ppm)
Arsenic	7/30	12	19	11
Lead	30/30	235	359 ·	127

Grab Sample Results

Sample ID	Arsenic (ppm)	Lead (ppm)
3-06121-B	11	179
3-06122-B	11 .	157
3-06123-B	- 11	188
3-06124-B	11	185
3-06125-B	11	202
3-06126-B	11	226
3-06127-B	11	359
3-06128-B	11	257
3-06129-B	11	208
3-06130-B	11	127
3-06131-B	12	136
3-06132-B	11	223
3-06133-B	11	152
3-06134-B	11	216
3-06135-B	11	184
3-06136-B	11	204
3-06137-B	17	347
3-06138-B	11	285
3-06139-B	11	329
3-06140-В	11	331
3-06141-B	11	306
3-06142-B	13	236
3-06143-B	11	296
3-06144-B	11	190
3-06145-B	17	335
3-06146-B	13	283
3-06147-B	11	195
3-06148-B	19	251
3-06149-B	11	230
3-06150-B	11	220

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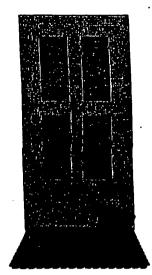
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Ways to protect your health y keeping dirt from getting into your house and into your body



Wash and peel all fruits, vegetables, and root crops



Wipe shoes on doormat or remove shoes



Don't eat food, chew gum, or smoke when working in the yard



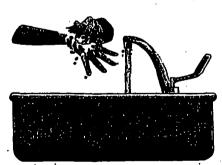
Damp mop floors and lamp dust counters and furniture regularly



Wash dogs regularly



Wash children's toys regularly



Wash children's hands and feet after they have been playing outside



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http://www.epa.gov/region08

Ref: 8EPR-SR

April 24, 2000

Ms. Nancy Willis
Family Star Montessori School
2246 Federal Boulevard
Denver, CO 80211

RE: Family Star Montessori School

Dear Ms. Willis:

I understand that construction work to build a new facility will soon begin on the property located at 33rd Avenue and Humboldt Street and owned by the Family Star Montessori School. As we have discussed, surface soil from this property, currently a vacant lot, was sampled by EPA in 1999. One sample of the 30 collected indicates an elevated concentration of arsenic in surface soil. EPA planned to further characterize this small area this spring and remove soil if necessary.

I am writing to suggest a plan for coordinating EPA's activities at this property and your construction activities. The levels of arsenic and lead found on the property indicate that planned excavations for building foundations and site grading may proceed without concern about unacceptable risks to workers or nearby residents and children. When this work is completed and before landscaping begins, please contact me to arrange for an EPA sampling crew to re-sample the property. The results of this second sampling effort will provide the most relevant information, i.e., the levels of arsenic and lead in the soils that school children will contact in the future. If these results indicate clean up is needed, it will be done by EPA.

I have discussed this course of action with EPA's On Scene Coordinator who will conduct our clean up actions this spring and summer and with the Colorado Department of Public Health and Environment's project manager. We all agree that your construction plans need not be delayed due to concerns about the sampling results.

If you have any questions, please feel free to call me at (303) 312-6579. I look forward to working with you on the re-sampling effort.

Sincerely,

Bonnie Lavelle

Remedial Project Manager

cc: Barbara O'Grady, CDPHE Pete Stevenson, EPA